

### Abstract

5 The invention relates to a method and a device for determining and/or monitoring the volume flow rate and/or mass flow rate of a medium flowing through a container. In the case of the device, such is an ultrasonic flow measuring device, which works on the basis of the travel-time-difference principle.

10 Additionally, a technique is presented whereby, on the basis of the results of measurement, also information is provided concerning change in some other system and/or process variable. To this end, the currently measured, actual measuring signals, or the corresponding actual measuring data, is compared with corresponding, stored set measuring  
15 signals, or set measuring data; a report is output, when a deviation arises between the set measuring signals, or set measuring data, and the actual measuring signals, or actual measuring data.

(Fig.

1)